Title: SIRTF Point Source Extractor

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Abstract:

We present a generalized point source detector/estimator that
is being developed for the SIRTF mission. The point source
extractor has many significant features that will be discussed.
Among them are, incorporation of user-specified pixel data quality
masks, use of optimal linear matched filtering schemes for
detection of faint point sources, improved image segmentation by
using point source probability images, use of a modified simplex
algorithm developed specifically for point source parameter estimation and
point source de-blending. The point source extractor will be
a component of the post-BCD pipelines for SIRTF imaging observations.
The extractor can also be used as a stand-alone program by
individual users.